



TIGER Supply Chain Webinar

**Reliability and condition monitoring of tidal
turbines**

28 October 2020, 11.00 – 12.30 (BST)

www.InterregTiger.com



Housekeeping



- Thank you all for joining this TIGER SCS webinar co-hosted by **OceansGateplymouth.com Marine Technology webinar Series.**
- This webinar is being recorded and will be made available through the TIGER website after the live event.
- Q&A session after all presentations for attendees to post their questions. Please use the Q&A function to post your questions which can be up voted by other interested in hearing the answer. Any technical issues please use the chat function for assistance.

Agenda

- 11:00 – Welcome & introduction to **TIGER**
- 11:15 – **OREC**, Hyunjoo Lee: Pitch system health monitoring with machine learning algorithm for offshore wind – lessons for tidal
- 11:30 – **SIMEC Atlantis**, Fraser Johnson: Early challenges of operating a 1st of class machine and opportunities for supply chain
- 11:45 – **Hydroquest**, Mickael Tournabien: Hydroquest tidal turbines – reliability from design
- 12:00 – **OREC**, Stephen Robertson: Overview of ORE Catapult test facilities for tidal stream technology and supply chain
- 12:15 – **Q&A session**, open floor for attendees to post questions to speakers on their presentation.
- 12:30 – Close

What is TIGER?

TIGER = **T**idal Stream **I**ndustry Ener**G**is**ER**

TIGER is a **€45.4m** (€29.9m ERDF), 4-year project, with 18 partners, approved 2 Jul 2019.

Funded through the [Interreg France Channel \(Manche\) England programme](#), it is a collaborative cross border project

What is TIGER?



PARTNERS OUTSIDE THE FCE AREA



18 Partners including:

- 6 Technology developers & sub projects
- 6 Universities
- 2 regional agencies

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INDUSTRY
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Interreg 
EUROPEAN UNION

France (Channel
Manche) England

European Regional Development Fund

What is TIGER?



CORNWALL



ORE Catapult (TIGER Lead Partner)
Chi Gallos
Hayle Marine Renewables Business
Park
North Quay
Hayle
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TR27 4DD



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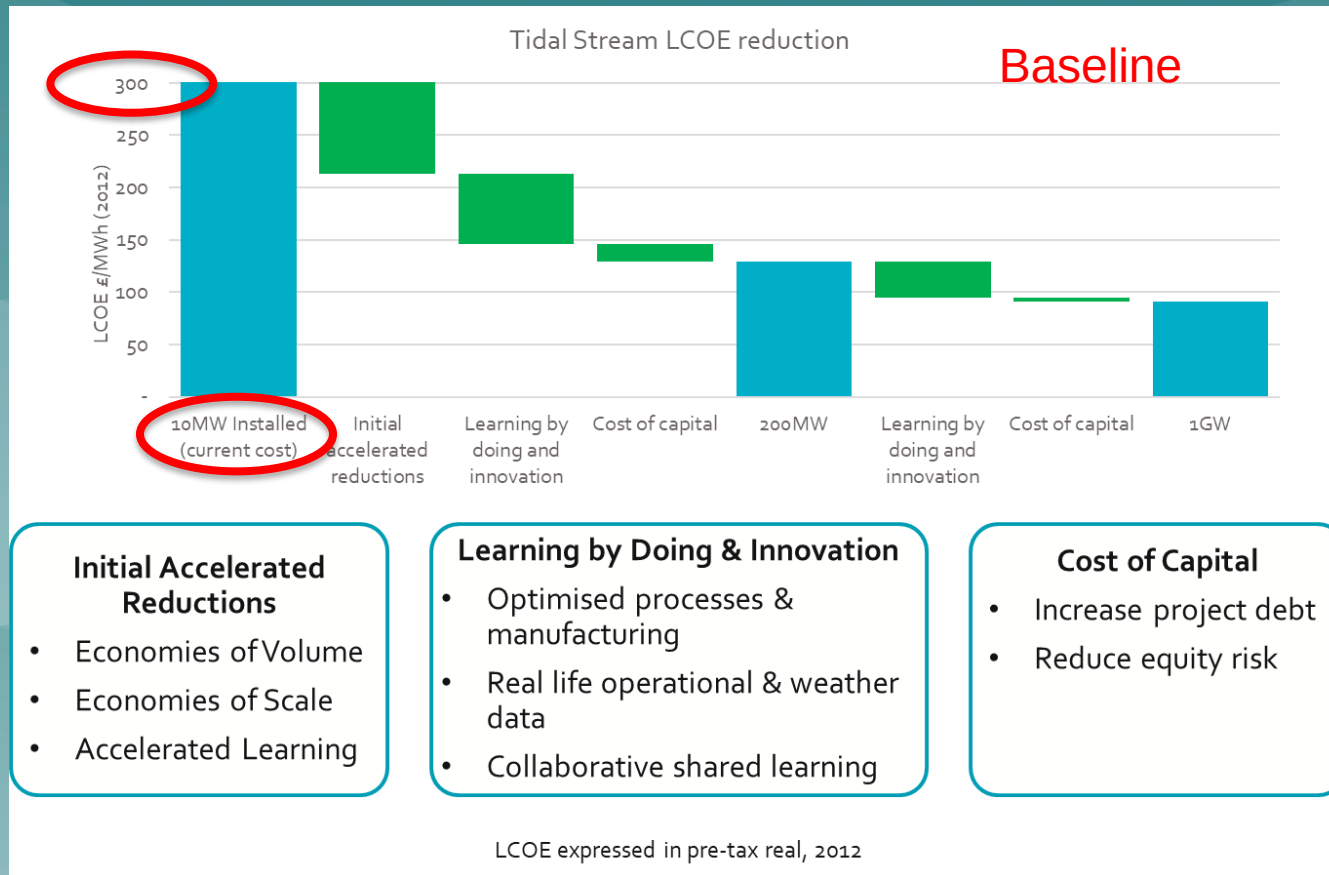
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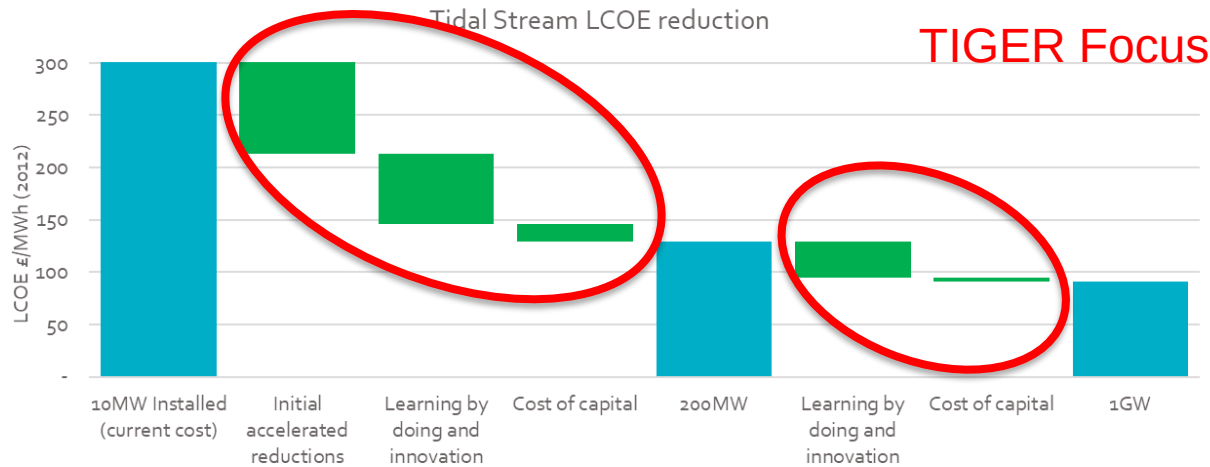
European Regional Development Fund

What is TIGER about?



OREC 2018 Wave & Tidal cost reduction pathway report

What is TIGER about?



Initial Accelerated Reductions

- Economies of Volume
- Economies of Scale
- Accelerated Learning

Learning by Doing & Innovation

- Optimised processes & manufacturing
- Real life operational & weather data
- Collaborative shared learning

Cost of Capital

- Increase project debt
- Reduce equity risk

LCOE expressed in pre-tax real, 2012

OREC 2018 Wave & Tidal cost reduction pathway report

How will TIGER do this

Underpinned with tidal Technology Developer collaboration & knowledge sharing

WP1 – Tidal energy site development and deployment

The **learning by doing** activities & data collection

- Ramsey Sound
- Paimpol Brehat
 - HQ
 - Minesto
- Morbihan Gulf
- Raz Blanchard
 - PTEC

WP2 – sector and technology development

Systems, component & process **development & Innovation**. Work together with supply chain companies to innovate and improve and form supply chain clusters with know how in tidal stream

WP3 –Cost reduction analysis

This is where all the data and learnings are pulled together to form evidence case for policy support to root the tidal stream industry in the EU.

Supply Chain Engagement activities

- TIGER technology developers, in conjunction with **engaging interested supply chain companies**, will develop a range of at least 40 different equipment design specifications/ front end engineering designs/detailed designs for new optimised turbine components, systems and processes.
- Open to working with organisation from across sectors
- Focus of designs will be to maximise cost reduction, performance, modularity and plug and play features to increase standardisation and improve production economies of scale across the sector.

Collaboration & knowledge sharing

TIGER welcomes the opportunity to collaborate with other like-minded projects and associations.

If you would like to discuss possible opportunities, please get in touch.

Thank You

Contact

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TIGER Series 1 – Finale webinar theme

30th October 13:00 BST- Supply Chain Opportunities | Onshore & Offshore Mobilisation and Logistics – Speakers from Minesto, Sabella, James Fisher & Dublin Offshore

Sign up here: www.interregtiger.com



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Thank you for Joining

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